

## PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner  
US Department of Commerce  
United States Patent and Trademark  
Office, PCT  
2011 South Clark Place Room  
CP2/5C24  
Arlington, VA 22202  
ETATS-UNIS D'AMERIQUE  
in its capacity as elected Office

Date of mailing (day/month/year) 18 June 2001 (18.06.01)	
International application No. PCT/US00/26060	Applicant's or agent's file reference RCA 89826
International filing date (day/month/year) 22 September 2000 (22.09.00)	Priority date (day/month/year) 28 September 1999 (28.09.99)
Applicant YOST, William, Henry	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:  
04 April 2001 (04.04.01)

☐ in a notice effecting later election filed with the International Bureau on:  
\_\_\_\_\_

2. The election ☒ was

☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Juan Cruz Telephone No.: (41-22) 338.83.38
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PCT

REC'D 11 JAN 2002

WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference RCA 89826	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US00/26060	International filing date (day/month/year) 22/09/2000	Priority date (day/month/year) 28/09/1999
International Patent Classification (IPC) or national classification and IPC H04L12/00		
Applicant THOMSON LICENSING S.A. et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 5 sheets, including this cover sheet.

- ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand  04/04/2001	Date of completion of this report  08.01.2002
Name and mailing address of the international preliminary examining authority:   European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer  Apostolescu, R  Telephone No. +49 89 2399 7950  

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/26060

## I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, pages:**

1-15 as originally filed

**Claims, No.:**

1-5 as originally filed

**Drawings, sheets:**

1/2-2/2 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/26060

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Yes:	Claims	1-5
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1-5
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1-5
	No:	Claims	

2. Citations and explanations  
**see separate sheet**

## VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:  
**see separate sheet**

**R \_ I t \_ m \_ V**

**Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

Reference is made to the following documents:

- D1: CHERKAOUI O ; RICO N ; SERHROUCHNI A : 'SNMPv3 can still be simple? ' PROCEEDINGS OF THE SIXTH IFIP/IEEE INTERNATIONAL SYMPOSIUM ON INTEGRATED NETWORK MANAGEMENT, 24 - 29 May 1999, pages 501-515, XP002163742 Boston, MA, USA
- D2: WENLI CHEN; NITIN JAIN; SINGH S : 'ANMP: ad hoc network management protocol ' IEEE J. SEL. AREAS COMMUN. (USA), IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, 1 August 1999 (1999-08-01), pages 1506-1531, XP002163743

**1. Independent claim 1.**

It is considered that independent claim 1 (method) relates to new and inventive subject-matter (Articles 33 (2) and (3) PCT), since the prior art does not disclose or suggest the specifically claimed method for initializing a simple network management protocol v3 device according to claim 1.

Document D1 deals with an implementation model of SNMPv3 that keeps the simplicity of SNMPv1, while at the same time making it possible to evolve the framework to address different security needs and different configurations. This goal is achieved by using a modular approach.

Document D2 relates to a protocol for managing mobile wireless ad hoc networks. The protocol uses hierarchical clustering of nodes to reduce the number of messages exchanged between the manager and the agents. Ad hoc network management protocol is fully compatible with SNMPv3. The protocol also implements sophisticated security mechanisms that can be fine tuned to meet specific requirements.

Claim 1 of the present invention discloses a method that allows an operator to securely enter the initial SNMPv3 privacy and authentication keys into a SNMPv3 device and cause the device to enter in SNMPv3 mode. A SNMPv3 agent in the SNMPv3 device and a SNMPv3 manager compute a shared secret using the Diffie-Hellman key exchange protocol. The shared secret is converted into a readable password and the password is then converted into a secret key. The initial authentication key and the initial privacy key are setted to the value of the secret key.

**2. Dependent claims 2 to 5.**

Dependent claims 2 to 5 contain further details of the method of claim 1. As they are dependent on claim 1, they also satisfy the requirements for novelty and inventive step (Article 33 (2) and (3) PCT).

**Re Item VII**

**Certain defects in the international application**

1. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1 and D2 is not mentioned in the description, nor are these documents identified therein.

2. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

Claim 1 contains signs placed in parentheses. These signs are definitions of the respective features and not reference signs. Only reference signs of the technical features are allowed to be placed in parentheses.

3. The last step in the characterising part of claim 1 "setting an initial authentication key and an initial privacy key ..." must be read "setting the initial authentication key and the initial privacy key ...".

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>RCA 89826</b>	<b>FOR FURTHER ACTION</b> <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. <b>PCT/US 00/ 26060</b>	International filing date (day/month/year) <b>22/09/2000</b>	(Earliest) Priority Date (day/month/year) <b>28/09/1999</b>
Applicant  <b>THOMSON LICENSING S.A. et al.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1 \_\_\_\_\_  
☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/26060

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04L29/06 H04L12/24

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, IBM-TDB, INSPEC, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>CHERKAOUI O ; RICO N ; SERHROUCHNI A : "SNMPv3 can still be simple? " PROCEEDINGS OF THE SIXTH IFIP/IEEE INTERNATIONAL SYMPOSIUM ON INTEGRATED NETWORK MANAGEMENT, 24 - 29 May 1999, pages 501-515, XP002163742 Boston, MA, USA abstract page 505, line 7-20 paragraph '04.5! paragraph '0005!</p> <p style="text-align: center;">--- -/--</p>	1-5

☒ Further documents are listed in the continuation of box C.☐ Patent family members are listed in annex.

## ° Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

23 March 2001

Date of mailing of the international search report

04/04/2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Cichra, M



## INTERNATIONAL SEARCH REPORT

International Application No

B /US 00/26060

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WENLI CHEN; NITIN JAIN; SINGH S : "ANMP: ad hoc network management protocol " IEEE J. SEL. AREAS COMMUN. (USA), IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, 1 August 1999 (1999-08-01), pages 1506-1531, XP002163743 abstract paragraph '00VI!</p> <p>---</p>	1-5
A	<p>GRIMM R ET AL: "Security policies in OSI-management experiences from the DeTeBerkom project BMSec" COMPUTER NETWORKS AND ISDN SYSTEMS, NL, NORTH HOLLAND PUBLISHING. AMSTERDAM, vol. 28, no. 4, 1 February 1996 (1996-02-01), pages 499-511, XP004002982 ISSN: 0169-7552 the whole document</p> <p>---</p>	1-5
A	<p>SELLIN R: "FORTSETZUNG EINER ERFOLGSSTORY. ARCHITEKTUR UND FUNKTIONALITAET VON SNMP VERSION 3" NET - ZEITSCHRIFT FUER KOMMUNIKATIONS MANAGEMENT, DE, HUTHIG VERLAG, HEILDERBERG, vol. 53, no. 5, 1999, pages 56-61, XP000831013 ISSN: 0947-4765 the whole document</p> <p>-----</p>	1-5

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

- Fax nr: - 734-9700  
- 6 pages - PCT

To:

TRIPOLI, J.S.  
THOMSON MULTIMEDIA LICENSING INC  
P.O. Box 5312  
Princeton, New Jersey 08540  
ETATS-UNIS D'AMERIQUE

Confirmation  
FAX-Bestätigung

NOTIFICATION OF TRANSMITTAL OF  
INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT  
(PCT Rule 71.1)

RECEIVED  
JAN 14 2002

Date of mailing  
(day/month/year)

08.01.2002

Applicant's or agent's file reference  
RCA 89826

IS & S

### IMPORTANT NOTIFICATION

International application No.  
PCT/US00/26060

International filing date (day/month/year)  
22/09/2000

Priority date (day/month/year)  
28/09/1999

Applicant

THOMSON LICENSING S.A. et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

 European Patent Office  
D-80298 Munich  
Tel. +49 89 2399 - 0 Tx: 523656 epmu d  
Fax: +49 89 2399 - 4465

Authorized officer

Barrio Baranano, A

Tel. +49 89 2399-8621



# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)


Applicant's or agent's file reference <b>RCA 89826</b>	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/US00/26060</b>	International filing date (day/month/year) <b>22/09/2000</b>	Priority date (day/month/year) <b>28/09/1999</b>
International Patent Classification (IPC) or national classification and IPC <b>H04L12/00</b>		
Applicant <b>THOMSON LICENSING S.A. et al.</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 5 sheets, including this cover sheet.
  - ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand  <b>04/04/2001</b>	Date of completion of this report  <b>08.01.2002</b>
Name and mailing address of the international preliminary examining authority:   <b>European Patent Office</b> <b>D-80298 Munich</b> <b>Tel. +49 89 2399 - 0 Tx: 523656 epmu d</b> <b>Fax: +49 89 2399 - 4465</b>	Authorized officer  <b>Apostolescu, R</b>  Telephone No. <b>+49 89 2399 7950</b> <div data-bbox="1404 1785 1567 1942" data-label="Image"> </div>

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/US00/26060

**I. Basis of the report**

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, pages:**

1-15 as originally filed

**Claims, No.:**

1-5 as originally filed

**Drawings, sheets:**

1/2-2/2 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/US00/26060

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):  
*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Yes:	Claims 1-5
	No:	Claims
Inventive step (IS)	Yes:	Claims 1-5
	No:	Claims
Industrial applicability (IA)	Yes:	Claims 1-5
	No:	Claims

**2. Citations and explanations  
see separate sheet**

**VII. Certain defects in the international application**

The following defects in the form or contents of the international application have been noted:  
**see separate sheet**

**R Item V**

**Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

Reference is made to the following documents:

- D1: CHERKAOUI O ; RICO N ; SERHROUCHNI A : 'SNMPv3 can still be simple? ' PROCEEDINGS OF THE SIXTH IFIP/IEEE INTERNATIONAL SYMPOSIUM ON INTEGRATED NETWORK MANAGEMENT, 24 - 29 May 1999, pages 501-515, XP002163742 Boston, MA, USA
- D2: WENLI CHEN; NITIN JAIN; SINGH S : 'ANMP: ad hoc network management protocol ' IEEE J. SEL. AREAS COMMUN. (USA), IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, 1 August 1999 (1999-08-01), pages 1506-1531, XP002163743

**1. Independent claim 1.**

It is considered that independent claim 1 (method) relates to new and inventive subject-matter (Articles 33 (2) and (3) PCT), since the prior art does not disclose or suggest the specifically claimed method for initializing a simple network management protocol v3 device according to claim 1.

Document D1 deals with an implementation model of SNMPv3 that keeps the simplicity of SNMPv1, while at the same time making it possible to evolve the framework to address different security needs and different configurations. This goal is achieved by using a modular approach.

Document D2 relates to a protocol for managing mobile wireless ad hoc networks. The protocol uses hierarchical clustering of nodes to reduce the number of messages exchanged between the manager and the agents. Ad hoc network management protocol is fully compatible with SNMPv3. The protocol also implements sophisticated security mechanisms that can be fine tuned to meet specific requirements.

Claim 1 of the present invention discloses a method that allows an operator to securely enter the initial SNMPv3 privacy and authentication keys into a SNMPv3 device and cause the device to enter in SNMPv3 mode. A SNMPv3 agent in the SNMPv3 device and a SNMPv3 manager compute a shared secret using the Diffie-Hellman key exchange protocol. The shared secret is converted into a readable password and the password is then converted into a secret key. The initial authentication key and the initial privacy key are setted to the value of the secret key.

**2. Dependent claims 2 to 5.**

Dependent claims 2 to 5 contain further details of the method of claim 1. As they are dependent on claim 1, they also satisfy the requirements for novelty and inventive step (Article 33 (2) and (3) PCT).

**Re Item VII**

**Certain defects in the international application**

1. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1 and D2 is not mentioned in the description, nor are these documents identified therein.

2. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

Claim 1 contains signs placed in parentheses. These signs are definitions of the respective features and not reference signs. Only reference signs of the technical features are allowed to be placed in parentheses.

3. The last step in the characterising part of claim 1 "setting an initial authentication key and an initial privacy key ..." must be read "setting the initial authentication key and the initial privacy key ...".

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>RCA 89826</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/US 00/26060</b>	International filing date (day/month/year) <b>22/09/2000</b>	(Earliest) Priority Date (day/month/year) <b>28/09/1999</b>
Applicant <b>THOMSON LICENSING S.A. et al.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.  
☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. 1

- ☒ as suggested by the applicant.
- ☐ because the applicant failed to suggest a figure.
- ☐ because this figure better characterizes the invention.

☐ Non of the figures.



# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 00/26060

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04L29/06 H04L 24

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, WPI Data, PAJ, IBM-TDB, INSPEC, COMPENDEX

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>CHERKAOUI O ; RICO N ; SERHROUCHNI A : "SNMPv3 can still be simple? " PROCEEDINGS OF THE SIXTH IFIP/IEEE INTERNATIONAL SYMPOSIUM ON INTEGRATED NETWORK MANAGEMENT, 24 - 29 May 1999, pages 501-515, XP002163742 Boston, MA, USA abstract page 505, line 7-20 paragraph '04.5! paragraph '0005!</p> <p style="text-align: center;">--- -/--</p>	1-5

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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Date of the actual completion of the international search

23 March 2001

Date of mailing of the international search report

04/04/2001

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indications where appropriate, of the relevant passages	Relevant to claim No.
A	WENLI CHEN; NITIN JAIN; SINGH S : "ANMP: ad hoc network management protocol " IEEE J. SEL. AREAS COMMUN. (USA), IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, 1 August 1999 (1999-08-01), pages 1506-1531, XP002163743 abstract paragraph '00VI! ---	1-5
A	GRIMM R ET AL: "Security policies in OSI-management experiences from the DeTeBerkom project BMSec" COMPUTER NETWORKS AND ISDN SYSTEMS,NL,NORTH HOLLAND PUBLISHING. AMSTERDAM, vol. 28, no. 4, 1 February 1996 (1996-02-01), pages 499-511, XP004002982 ISSN: 0169-7552 the whole document ---	1-5
A	SELLIN R: "FORTSETZUNG EINER ERFOLGSSTORY. ARCHITEKTUR UND FUNKTIONALITAET VON SNMP VERSION 3" NET - ZEITSCHRIFT FUER KOMMUNIKATIONS MANAGEMENT,DE,HUTHIG VERLAG, HEILDERBERG, vol. 53, no. 5, 1999, pages 56-61, XP000831013 ISSN: 0947-4765 the whole document -----	1-5